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Chapter 1 Main Technical Specifications of ZTP 300

1.1 Normal work environment

Operating environment

a) Temperature: 5˚C ~ 35˚C
b) Relative humidity: ≤80%
c) Supply voltage: AC 220V, 50Hz, 400W
d) Pressure: 860hPa ~ 1060hPa

Storage and Transfer

a) Ambient temperature: -10˚C ~ +50˚C
b) Relative humidity: ≤95%
c) Pressure: 500hPa ~ 1060hPa

1.2 Sterilization Method:

a) Very concentrated Ozone gas
b) The wavelength of infrared light produces heat in the temperature range of 30˚ C ~ 70˚C

1.3 Ozone concentration: ≥100 PPM
1.4 Ozone sterilization period: 60 minutes
1.5 Standard resistance to use ozone generator: >1500 hours
1.6 Drying method: Very high intensity light
1.7 Infrared light intensity : 30 °C ~ 70 °C
1.8 Sterilization period: 60 minutes
1.9 Leakage ground current: 0.1mA
1.10 Resistance: 0.1Ω
1.11 Minute 1500V Voltage Test Resistance: no breakdown
1.12 Supply voltage: AC 220V
1.13 Electrical Frequency: 50/60 Hz
1.14 Dimensions of the unit: 590mm(L) × 540mm(W) × 1662mm(H)
1.15 Unit net weight: 51 Kg

SPECIFICATIONS ZTP 300

Product model/type		ZTP 300
Carrying capacity		330 L
Rated voltage		220V
Rated frequency		50Hz
Power		400W
Unit Dimension		590×540×1662(mm)
Net weight		51 Kg
Sterilization with Ozone Generator	Ozone concentration	≥100 PPM
	Sterilization time	60 Minutes
	Sterilization period	60 Minutes
Drying with UVC	UV Power	≥40μW/cm²
	Sterilization Time	60 Minutes
	Sterilization Period	60 Minutes
Heat Drying	Drying Temperature	30°C ~ 70°C
	Drying Time	35 Minutes
	Drying Period	60 Minutes
Durability Standard Ozone & Infrared Usage		0.1 mA
Leak Current Test		0.1 mΩ
Earth resistance test		Not transparent
Resistance Test to 1500V voltage, 1 minute		Can work normally
Function test at 180V		Can work normally
Function test at 280V. voltage		Can work normally
Function test at 42˚C temperature, 95% RH		Can work normally
Function test at -10˚C		High Density Silicon Seal
Protection against Ozone leakage		There is
The alarm will stop working when the door is opened		Double layer glass

Chapter 2 Warning and Security

2.1 The power supply must be grounded before the sterilizer is operated.

2.2 Please disconnect the power supply cable before replacing the fuse.

2.3 This appliance is recommended to be operated and maintained by trained staff.

2.4 The operator should read this manual carefully before operating the sterilizer, and operate the appliance in accordance with the operating regulations.

2.5 The design of this sterilizer has good security, but the operator must still pay attention to warnings of the state and operating conditions of the sterilizer.

2.6 Please turn off the sterilizer and unplug the power supply before cleaning and wiping dry.

2.7 If the instrument is not used immediately after sterilization, the instrument can be in a tray container which is lined with sterile paper, and covered with sterile cloth or paper. This instrument must be used within 3 hours.

2.8 The ZTP-300 sterilizer has passed the tests according to the standards of IEC60335 and IEC60601. In order to maintain the best performance during use, it is recommended to carry out periodic calibrations every year to an Elitech service center or an accredited calibration body; such as BPFK (Health Facility Security Center).

Chapter 3 Maintenance Rules

3.1 Under normal conditions use according to the Instructions for Use of this Sterilizer, if this sterilizer has some problems, please contact our customer service. The company maintains sales records and customer records for each sterilizer that is guaranteed a one-year service warranty from the original date of purchase depending on condition and time.

3.2 Even during the free maintenance period, we charge for repairs for the following reasons:

- 3.2.1 Errors in use caused by operation outside the instructions for use of the sterilizer. (broken lamp due to hitting the instrument, falling, or other faults; unit not working due to splashing water or other faults)
- 3.2.2 Error caused by falling when the user has left the purchase location.
- 3.2.3 Errors in preparation, reconstruction, decomposition and others outside of our company standards.
- 3.2.4 Damage caused by natural disasters for example: fire, flood, earthquake and others.
- 3.2.5 Damage caused by fluctuations in the electrical voltage drastically or outside the standard voltage provisions of the sterilizer.

3.3 In the warranty period, free replacement for spare parts for one year. Except for power cord, stainless rack, lampshade frame, rack holder due to overload, instructions for use and packing load.

3.4 Free maintenance service will be canceled if we find the seal is broken.

3.5 For maintenance costs outside the warranty period, our company recommends continuing to use “Contact Periodic Maintenance”.

Chapter 4 Characteristics of ZTP 300 Sterilizer

4.1 Sterilization system: Dry sterilizer.

4.2 This sterilizer is very easy to use, no special knowledge and skills are needed for operation, no special supervision & maintenance is required.

4.3 The sterilization process runs automatically, and the device can be shut-off when the sterilization process ends.

4.4 Practical control panel, easier for operation. The light indicator shows the working status more clearly for observation.

4.5 Electrical safety class: Class 1.

4.6 The overall shape of this tool is elegant and easy to move or mobilize for various purposes, it can be supplied with electricity from UPS, DC sources, solar panels, dry batteries using a power inverter.

4.7 According to the working mode class, this tool is included in the tools that cannot work continuously.

4.8 Almost all instruments can be sterilized in this Sterilizer.

4.9 This sterilizer can be used multi-function for various purposes, institutions, clinics, laboratories, hospitals, restaurants, and households. Can sterilize: all medical instruments, salon labs, beauty treatments, tattoos, toys, baby equipment, important documents, eating and drinking utensils.

Chapter 5 Pay attention before Operation

5.1 Read this user manual carefully before operating to ensure that the Sterilizer can be used safely and effectively.

5.2 Installation and maintenance of the appliance must be carried out in accordance with these instructions for use.

5.2.1 There shall be no cables or sources of high voltage in the vicinity of the sterilizer.

5.2.2 Do not use or store the instrument in a place where the air pressure is too high, the temperature and humidity exceeds general standards, the ventilation is not good, there is too much dust, there are gases containing salt and alkali and chemical drugs.

5.3 This sterilizer must be placed on a flat surface. Place it in a bright place when moving. Avoid excessive vibration and shock.

5.4 The AC frequency and rated voltage shall be as required, and have sufficient current capacity.

5.5 Please place this sterilizer in a place that is easy to ground.

5 5.6 Before using the sterilizer, remove all straps on the instrument rack along with the wrapper and remove the Warranty Card User Manual and all documents, keep it in a place that is easy to find.

5.7 Check all equipment in the sterilization room, whether it is installed properly and correctly and in its place.

Chapter 6 Work Preparation Before Operating the Sterilizer

6.1 Check whether the Sterilizer is earthed and the cable connection is secure or not.

6.2 Check the appropriate output voltage when selecting AC UPS.

6.3 Ensure that all instruments (equipment) to be sterilized have been thoroughly washed and dried before placing them in the sterilizer.

6.4 Pre-cleaning of instruments using gloves. Instruments are cleaned with a warm, soapy water solution in a sink or other suitable container. After that the instrument is rinsed with running water and do it carefully so that the water does not splash.

6.5 Insert the instrument (equipment) into the upper or lower shelf according to the risk category or characteristics of the product being sterilized, there must be sufficient gaps between the instruments (equipment) so that the sterilization results are effective and thorough.

6.6 Instruments can be grouped according to the size of the risk posed to the patient:

- Instruments that are classified as high risk are:
  Instruments that penetrate the skin, enter sterile body parts, or come into direct contact with injured mucous membranes.
- Instruments classified as moderate risk are:
  Instruments that are in direct contact with intact mucous membranes.
- Instruments that are classified as low risk are:
  Instrument used only on intact skin.

6.7 Cotton, gauze, gloves, cloth and the like can be sterilized by placing them in a neat and orderly manner, the cloth is not folded in layers.

6.8 For small instruments, it is requested to provide a tight and evenly porous and thorough instrument rack.

Chapter 7 Precautions during Use

7.1 Note that all instruments (equipment) have been arranged neatly and well, according to product categories and characteristics, there are sufficient gaps between instruments (equipment), do not exceed the load and do not overflow.

7.2 Note that the mechanical door lock is properly installed.

7.3 During sterilization, if a leak is detected, stop the sterilization process immediately, unplug the power supply and contact our service center.

7.4 During sterilization, if the lamp flashes for a long time or works abnormally, stop the sterilization process immediately, unplug the power supply and contact our service center.

7.5 During the sterilization process, it is forbidden to open the sterilizer door to avoid leakage, if the door is opened, an alarm will sound and the sterilization process will stop automatically. It is requested to start the sterilization process from the beginning.

7.6 When the sterilization process ends, it is forbidden to open the door of the sterilizer directly, it is recommended to wait for 20 minutes.

7.7 Disconnect or disconnect the power cord from the power source after use.

7.8 Store the sterilizer and spare parts properly and correctly according to the instructions for use for future use.

Chapter 8 Grounding and Electrical Connection to the Sterilizer

Grounding:

8.1 Connect the sterilizer to ground and a power outlet via the three-wire power cord (three-wire plug). The three-wire plug must be inserted into the three-wire cord socket properly.

8.2 If a three-wire receptacle is not available, a qualified electrician must install one unit in accordance with KONSUIL or AKLI regulations in Indonesia.

8.3 Under no circumstances should remove the grounding conductor from the electric steaker.

8.4 Do not use extension cords or adapters of any kind. The power cord and plug must be intact and undamaged.

8.5 Do not use pipelines and others as grounding.

8.6 Proper grounding ensures safety and protects against AC power interference and electromagnetic waves.

Electrical Connection to the Sterilizer:

8.7 Ensure that the AC power supply complies with the following specifications: 220-240 V AC, 50Hz.

8.8 Connect the power cord/st eaker from the sterilizer to an outlet that has been properly and properly grounded.

8.9 Make sure the power indicator light on the sterilizer is lit.

8.10 If the power cord is not properly connected before operating the sterilizer, there is a possibility that the sterilizer may not work properly due to inefficient power input.

Chapter 9 Operation of the Sterilizer

9.1 Enter the goods to be processed then close the door and will start the process.

9.2 Press the button to operate the sterilizer.

9.3 When all processes are complete, let stand ± 20 minutes for neutralization/cooling.

9.4 Press the **Stop button** to stop or cancel the sterilization process at any time if desired.

9.5 Use instruments that have been sterilized immediately to avoid recontamination when they are removed from the sterilizer.

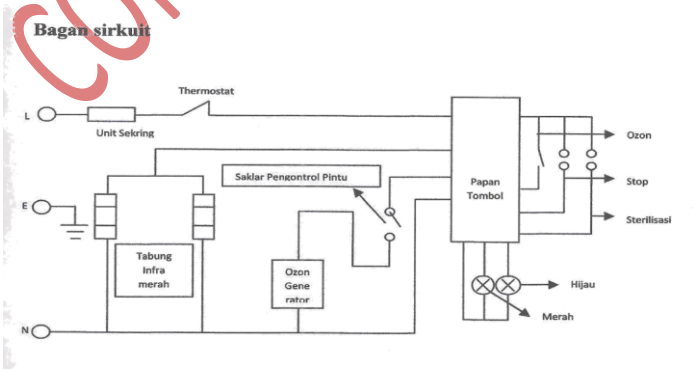
9.6 If the instrument (equipment) that has been sterilized is not used immediately, it can be stored continuously in the sterilizer to maintain the sterility of the instrument (equipment) while in the sterilizer.

9.7 Instruments (equipment) that have been stored in the sterilizer for a long time are recommended to be re-sterilized when they are about to be used again.

Chapter 10 Troubleshooting for User

No	Problem	Solution
1	Totally dead	• Check the electrical connection to the power source • Check the connection of the brown power cable socket with the avometer • Check the connection of the blue power cable socket with the avometer • Check the fuse cable connection with the Avometer
2	Ozone not working	• Check whether the power light indicator is on or not • Check the door control switch with the plate on the door whether it presses well • Check the normal electricity voltage or not
3	Infrared light is off	• Check whether the power light indicator is on or not • Check the normal electricity voltage or not

ELECTRICAL LINE DIAGRAMS OF STERILISATOR ZTP 300



Chapter 1 1 Care and Maintenance

11.1 The purchaser is not permitted to open or disassemble the contents in the sterilizer. Any maintenance or renewal must be carried out by a trained person and an authorized professional from PT. Sinko Prima Alloy. Maintenance must be done with original components from PT. Sinko Prima Alloy.

11.2 Please pull out the power supply plug when the mains power is about to be turned off. If this sterilizer is not used for a long time, please unplug the power supply from the power source, then put this sterilizer in a shady, cool and dry place.

11.3 Ste releaseators should be regularly maintained and cleaned.
How to clean the Elitech Sterilizer as follows:

a.) First of all, the power cord must be disconnected from the power source.
b.) Prepare a bucket and mix clean water and cleaning agents (liquid soap or neutral detergent) in the right ratio
c.) Dip a sponge into the bucket and rub it on the outside and inside of the sterilizer chamber and instrument rack
d.) Dip a cloth in a bucket filled with clean water without cleaning agents then rub it evenly throughout the sterilizer to remove foam and soap residue.
e.) Use a dry and clean cloth to dry, until the whole Sterilizer is completely dry and clean

Additional Chapter

In practice, there is no special officer responsible for the decontamination action, all group members play a role in the sterilization and disinfection process. In the public health department, the implementing officers consist of: health supervisors, public health nurses, assistant nurses, midwives and public health doctors. In the surgical department, group members may consist of general practitioners, room nurses, head of the room, secretaries and receptionists. Routine tasks such as operating the Elitech Sterilizer can be left to someone else. In view of the above, it is necessary to provide the book "Instructions for Using Sterilizers" and if needed we can provide the book " Practical Instructions for Instrument Sterilization with Elitech Sterilizers and Cross Infection Control".

First of all, it must be understood the meaning and difference of the terms decontamination, disinfection and sterilization. The degree of decontamination desired is determined by the risk posed by the instrument.

Decontamination: A general term that describes the methods of washing, disinfection and sterilization to remove germs attached to medical equipment.

Disinfection: A way to kill vegetative bacteria, viruses and fungi but not to kill spores.

Sterilization: A method to kill or destroy all microorganisms and spores attached to medical equipment.

Often there is a misinterpretation of the term above, such as sterilizing with boiling hot water which does not kill all spores, viruses and bacteria.

Pre-cleaning is an important part of the decontamination process; If the instrument is not cleaned and rinsed first, blood and other debris will clot and adhere firmly to the instrument. The attached organisms will prolong the decontamination or sterilization process.

Elitech Sterilizing Cupboard / sterilizer brings new innovations in the medical world, in terms of sterilizing medical equipment. With simple technology we made a breakthrough in the field of sterilization of medical equipment. By applying very high concentrations of ozone gas for sterilization and very high intensity light.

Elitech sterilizer fills the need for a sterilizer that is practical, economical, small and safe.

Benefit:

Practical:

- No special knowledge required
- No need supervision

- No special care needed
- Simple sterilization Pelaksanaan
- Almost all equipment can be sterilized with this tool
- Cloth, gauze, cotton can also be sterilized with this tool
- With a special wrapping, the instrument is kept sterile for one month
- Increase mobility for doctors and midwives

Economical:

- Cheap price
- Practical care
- The addition of tools other than wrapping is not required
- Optimum power consumption
- Optimum electricity consumption, standard operating costs

Security:

- Work without pressure
- No explosion hazard
- Electrical installation according to international standards

STERILISATOR
ZTP-300

MANUAL BOOK

Elitech® TECHNOVISION